TOh2TO"h9679760

FIG.1
PRIOR ART

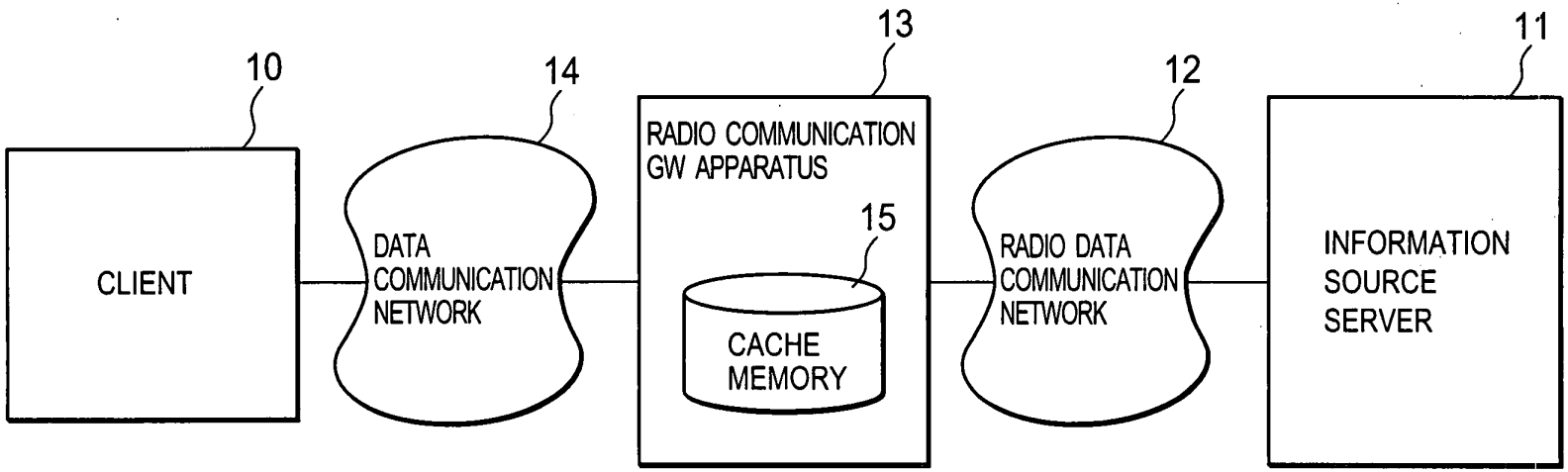

FIG.2
PRIOR ART

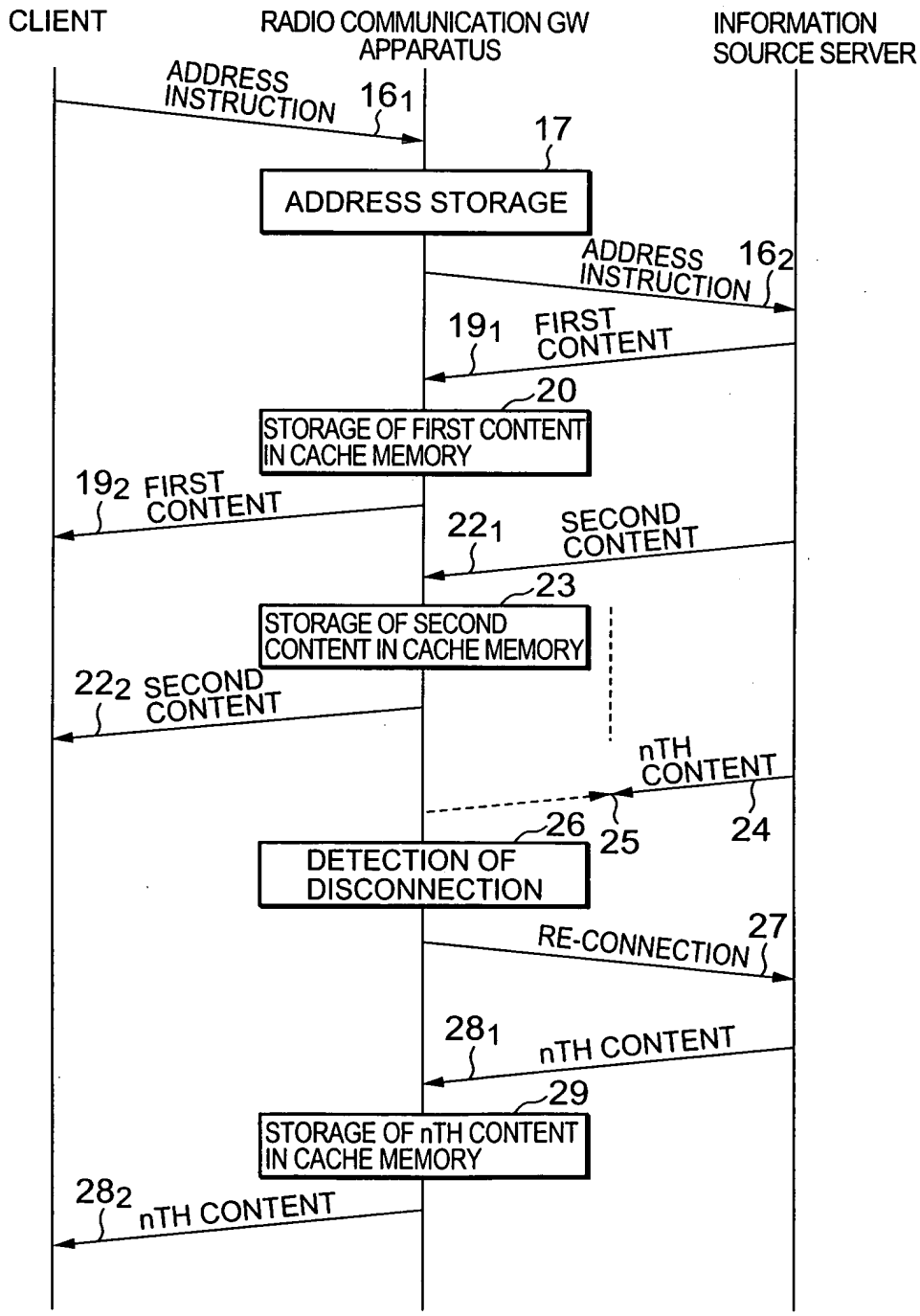

FIG.3
PRIOR ART

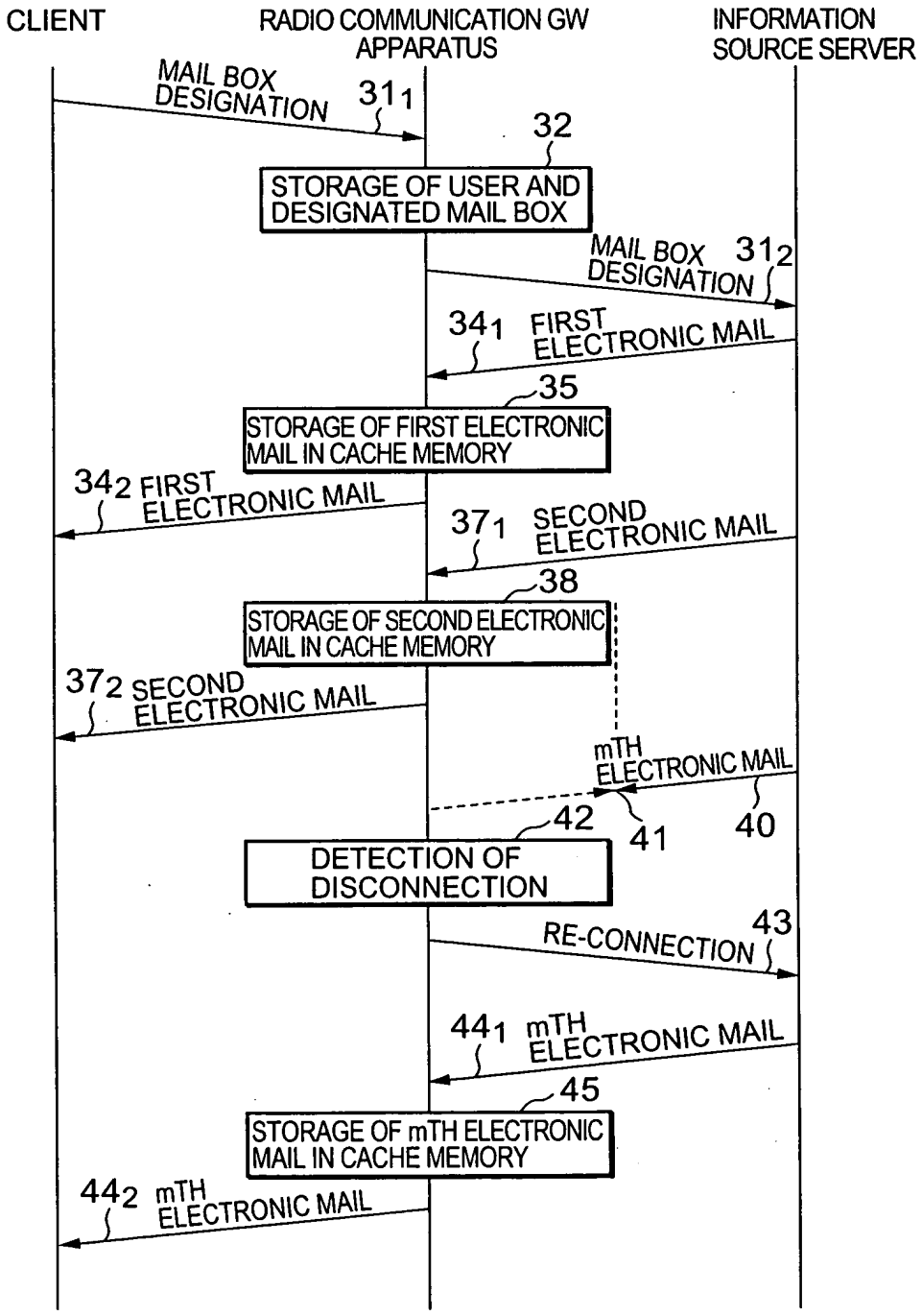

FIG.4

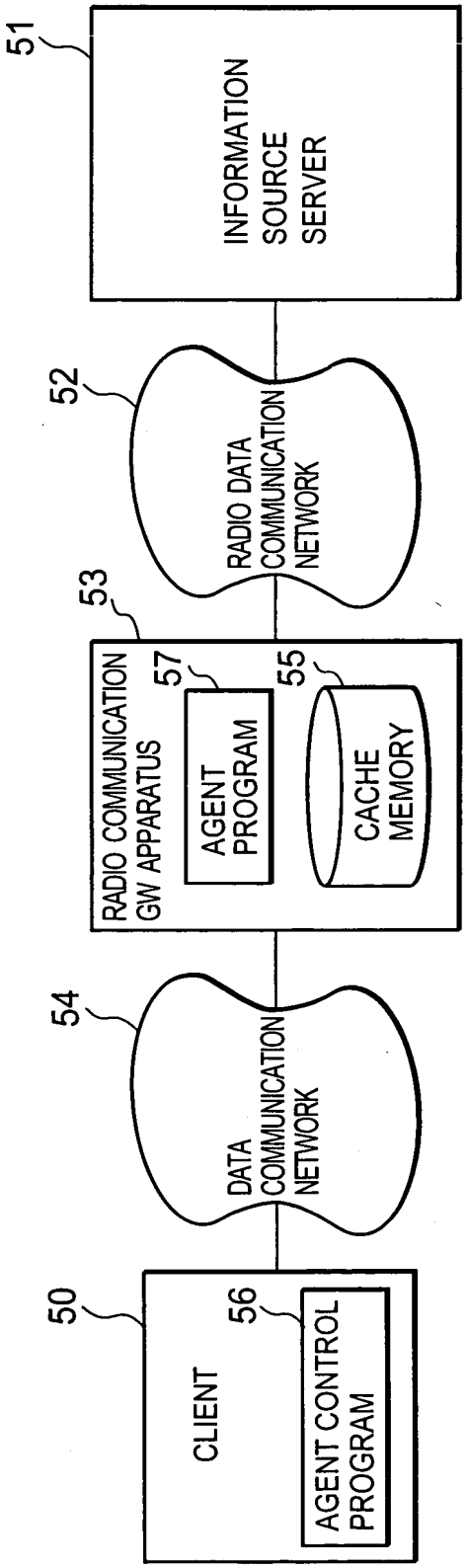
51
INFORMATION SOURCE SERVER
52
RADIO DATA COMMUNICATION NETWORK
53
RADIO COMMUNICATION GW APPARATUS
57
AGENT PROGRAM
55
CACHE MEMORY
54
DATA COMMUNICATION NETWORK
50
CLIENT
56
AGENT CONTROL PROGRAM

FIG.5

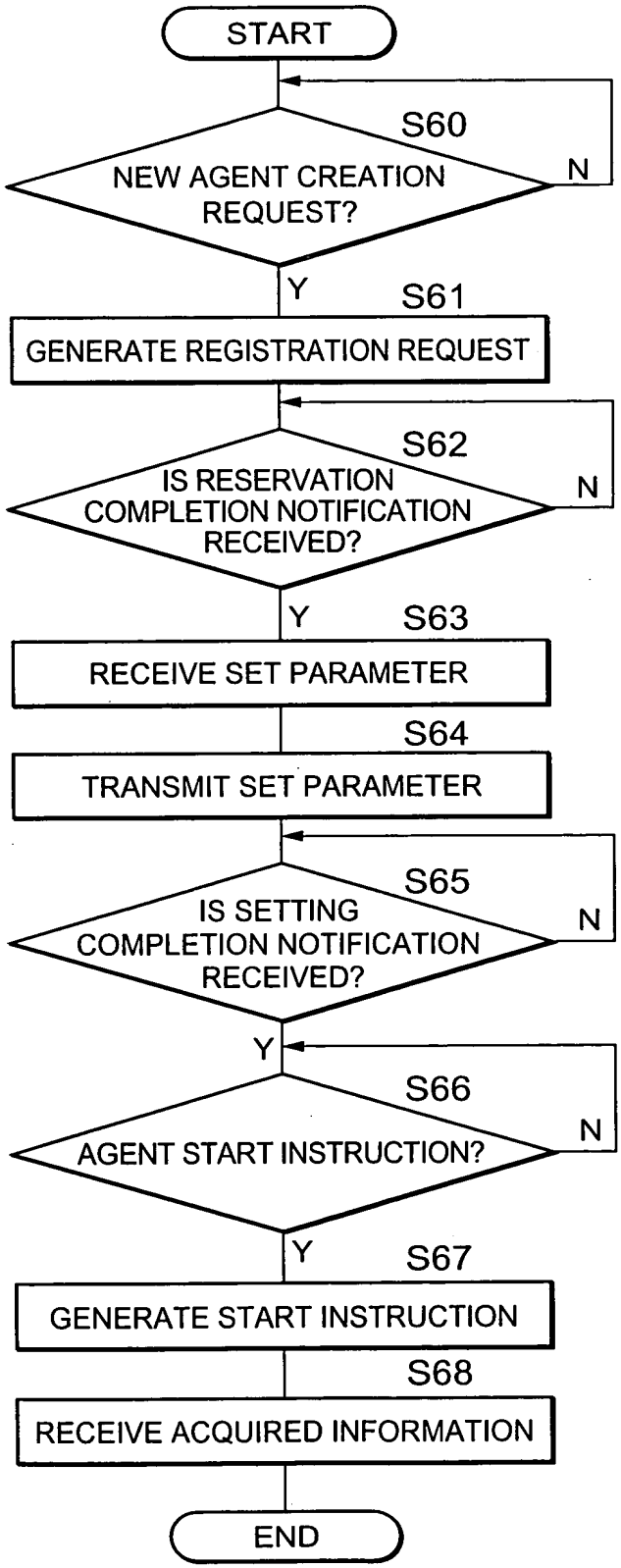

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FIG.6

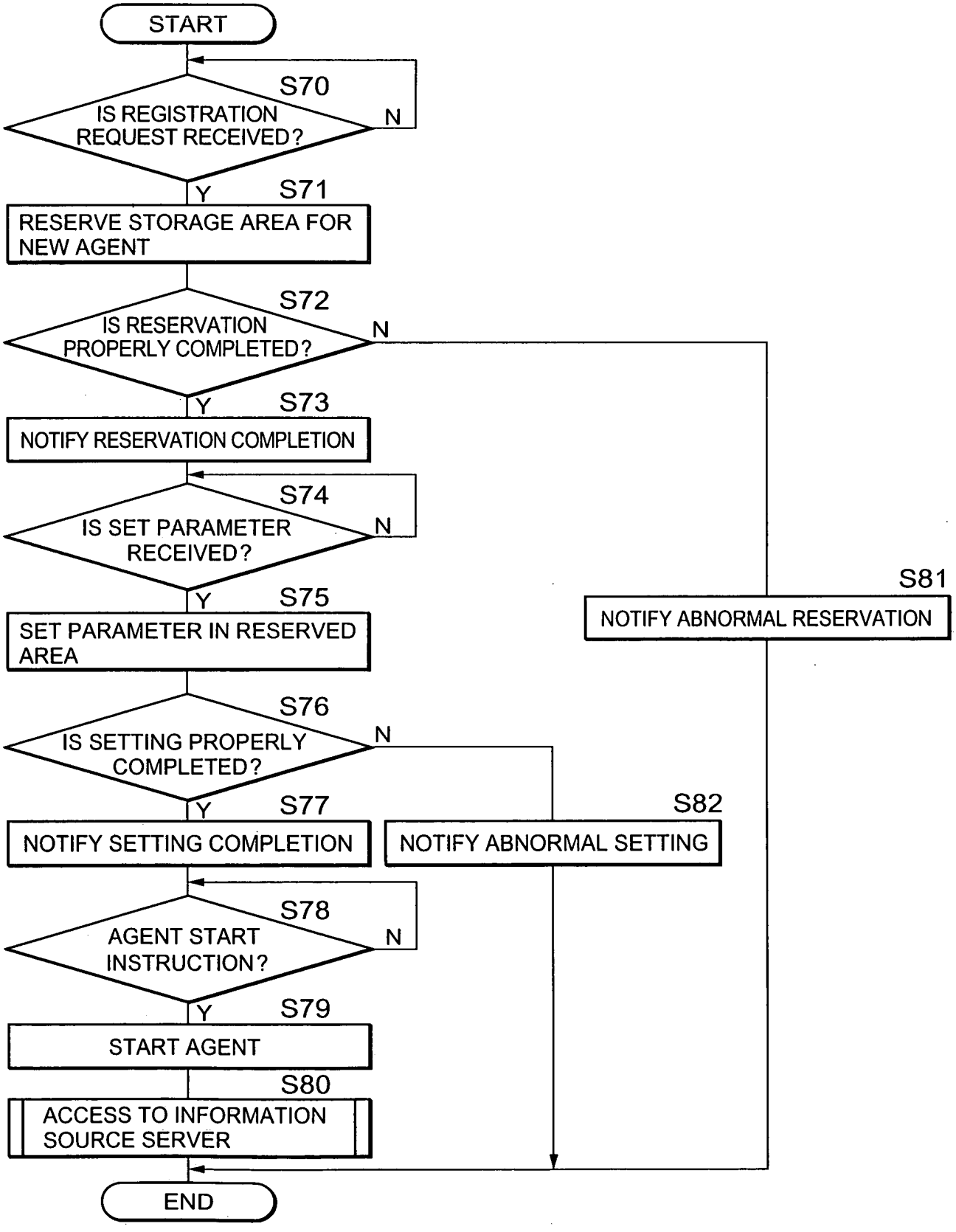
START
S70
IS REGISTRATION REQUEST RECEIVED?
N
Y
S71
RESERVE STORAGE AREA FOR NEW AGENT
S72
IS RESERVATION PROPERLY COMPLETED?
N
Y
S73
NOTIFY RESERVATION COMPLETION
S74
IS SET PARAMETER RECEIVED?
N
Y
S75
SET PARAMETER IN RESERVED AREA
S76
IS SETTING PROPERLY COMPLETED?
N
Y
S77
NOTIFY SETTING COMPLETION
S78
AGENT START INSTRUCTION?
N
Y
S79
START AGENT
S80
ACCESS TO INFORMATION SOURCE SERVER
END
S81
NOTIFY ABNORMAL RESERVATION
S82
NOTIFY ABNORMAL SETTING

FIG.7

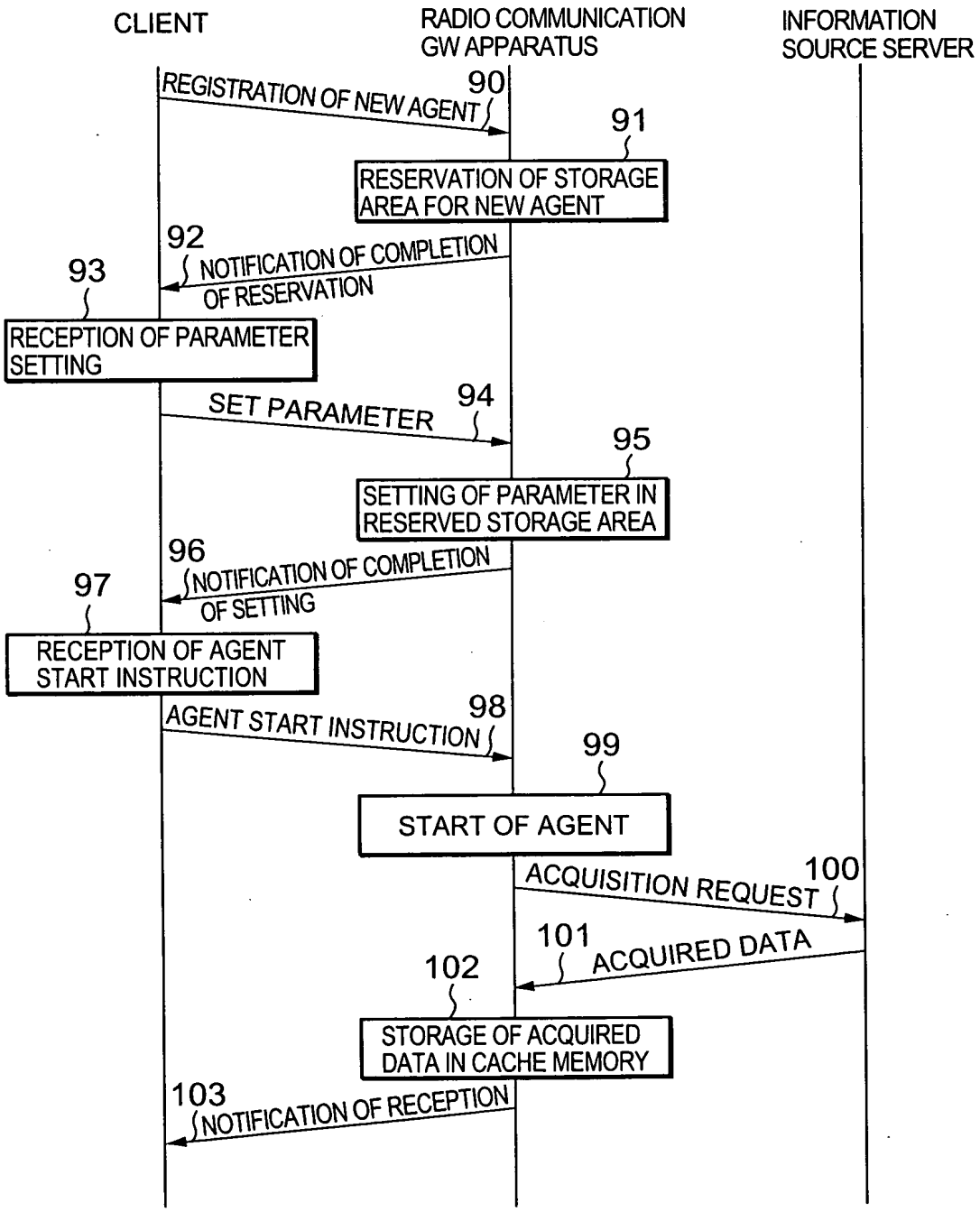
CLIENT
RADIO COMMUNICATION GW APPARATUS
INFORMATION SOURCE SERVER
90
REGISTRATION OF NEW AGENT
91
RESERVATION OF STORAGE AREA FOR NEW AGENT
92
NOTIFICATION OF COMPLETION OF RESERVATION
93
RECEPTION OF PARAMETER SETTING
94
SET PARAMETER
95
SETTING OF PARAMETER IN RESERVED STORAGE AREA
96
NOTIFICATION OF COMPLETION OF SETTING
97
RECEPTION OF AGENT START INSTRUCTION
98
AGENT START INSTRUCTION
99
START OF AGENT
100
ACQUISITION REQUEST
101
ACQUIRED DATA
102
STORAGE OF ACQUIRED DATA IN CACHE MEMORY
103
NOTIFICATION OF RECEPTION

FIG.8

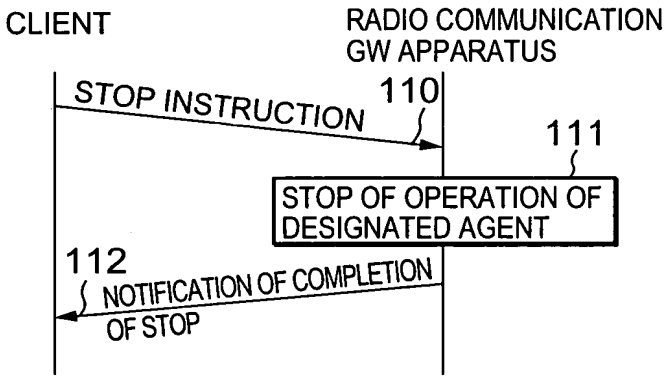
CLIENT
RADIO COMMUNICATION GW APPARATUS
STOP INSTRUCTION
110
111
STOP OF OPERATION OF DESIGNATED AGENT
112
NOTIFICATION OF COMPLETION OF STOP

FIG.9

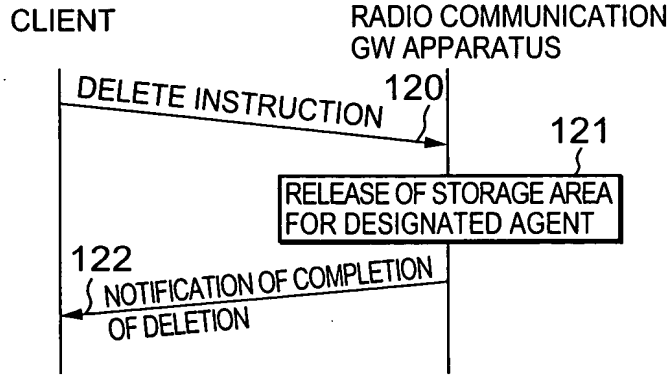
CLIENT
RADIO COMMUNICATION GW APPARATUS
DELETE INSTRUCTION
120
121
RELEASE OF STORAGE AREA FOR DESIGNATED AGENT
122
NOTIFICATION OF COMPLETION OF DELETION

FIG.10

```
                    ~130
agent agent_name{   ~131
int       agent_id;     ~132   /*IDENTIFIER OF AGENT*/
BOOL      agent_type;   ~133   /*TYPE OF AGENT*/
int       agent_life;   ~134   /*SERVICE LIFE OF AGENT (IN MINUTES)*/
func( ) *  agent_target_exe;   /*EXECUTION FILE INVOKED BY AGENT*/
func( ) *  agent_method;       /*DEFINITION OF OPERATION OF AGENT*/
}                   ~135
```

FIG.11

```
func  agent_method ( ) {
BOOL  method_type ;              /*TYPE OF PROCEDURE*/
int*  method_parameter ;         /*PARAMETER DESIGNATION FOR PROCEDURE*/
} ;
```

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FIG.12

method_type	DESCRIPTION	method_parameter	DESCRIPTION
WWWBROWSER	WWW BROWSER	TIMER	REPETITIVE OPERATION FOR DESIGNATED PERIOD OF TIME
EMAILER	ELECTRONIC MAIL BROWSER	FILTER MAIL_R	RECEPTION OF ELECTRONIC MAIL FROM SPECIFIC ORIGINATOR

FIG.13

```
define agent www_agent{
int        1 ;
BOOL     WWW ;
int        4000 ;
func( ) ★ WWWBROWSER ;
func( ) ★ TIMER  00:30:00 ;
} ;
```

FIG.14

```
define agent email_agent{
int        2 ;
BOOL     MAIL ;
int        8000 ;
func( ) ★ EMAILER ;
func( ) ★ FILTER  MAIL_R ;
} ;
```

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